

**Table S-2. Summary of Normal Operational Impacts at West Valley**

Impact Area	Unit of Measure	No Action Alternative	Alternative A - Preferred	Alternative B
<b><i>Human Health Impacts<sup>a</sup></i></b>				
Public Impacts from Ongoing Operations				
MEI	LCF	$3.7 \times 10^{-7}$	$3.7 \times 10^{-7}$	$3.7 \times 10^{-7}$
Population	LCF	$1.5 \times 10^{-3}$	$1.5 \times 10^{-3}$	$1.5 \times 10^{-3}$
Worker Impacts				
Involved worker MEI	LCF	$3.4 \times 10^{-4}$	$1.3 \times 10^{-3}$	$1.3 \times 10^{-3}$
Noninvolved worker MEI	LCF	$3.0 \times 10^{-4}$	$3.0 \times 10^{-4}$	$3.0 \times 10^{-4}$
Involved worker population	LCF	$2.1 \times 10^{-3}$	0.031	0.031
Noninvolved worker population	LCF	0.075	0.075	0.075
Total worker population	LCF	0.077	0.11	0.11
<b><i>Transportation</i></b> (from all causes – radiological and nonradiological; routine and accident conditions)				
Total	Shipments	169 (truck) 85 (rail)	2,550 (truck) 847 (rail)	3,120 (truck) <sup>b</sup> 1,079 (rail) <sup>c</sup>
Impacts				
Truck	Fatalities	0.034-0.041	0.79-0.82	0.84-0.93
Rail	Fatalities	0.042-0.049	0.60-0.68	0.66-0.79
Maximum Reasonably Foreseeable Accident				
Truck	LCF (probability)	1 ( $5 \times 10^{-7}$ )	4 ( $6 \times 10^{-7}$ )	4 ( $8 \times 10^{-7}$ )
Rail	LCF (probability)	2 ( $2 \times 10^{-6}$ )	4 ( $1 \times 10^{-7}$ )	4 ( $3 \times 10^{-7}$ )
<b><i>Geology and Soils</i></b>		No impact	No impact	No impact
<b><i>Water Quality and Resources</i></b>				
Groundwater		No impact	No impact	No impact
Surface water		No impact	No impact	No impact
Wetlands		No impact	No impact	No impact
Floodplains		No impact	No impact	No impact
<b><i>Noise and Aesthetics</i></b>		No impact	No impact	No impact
<b><i>Ecological Resources</i></b>				
Threatened and endangered species		No impact	No impact	No impact
Other plants and animals		No impact	No impact	No impact
<b><i>Land Use</i></b>		No impact	No impact	No impact
<b><i>Socioeconomics</i></b>		No impact	No impact	No impact
<b><i>Environmental Justice</i></b>		No impact	No impact	No impact
<b><i>Cultural Resources</i></b>		No impact	No impact	No impact

a. MEI = maximally exposed individual; LCF = latent cancer fatality (number of fatalities expected or probability).

b. Includes 270 TRU waste, and 300 HLW, truck shipments from interim storage to disposal. Alternative B would load the same number of truck shipments (2,550) at WVDP for shipment offsite as Alternative A.

c. Includes 172 TRU waste, and 60 HLW, rail shipments from interim storage to disposal. Alternative B would load the same number of rail shipments (847) at WVDP for shipment offsite as Alternative A.